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R Rudd

Atomistic simulation of MEMS resonators through the coupling of length scales - group of 2 »

RE Rudd, JQ Broughton - J. Modeling and Simulation of Microsystems, 1999 - cr.org ... the multiscale decomposition for the micro- **gear train**. ... 3: Illustration of dynamic **simulation** zone and ... fundamental flexural mode of **oscillation**, and released. ...

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Experimental verification of a command shaping boom crane controlsystem - group of 3 »

GG Parker, K Groom, JE Hurtado, J Feddema, RD ... - American Control Conference, 1999. Proceedings of the 1999, 1999 - ieeexplore.ieee.org

... to be the slew axis **gear train**, and is ... only addresses the source of payload **oscillation** attributed to ... under investigation both in **simulation** and experimental ...

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On Modeling, Identification, and Control of a Heavy-Duty Electrohydraulic Harvester Manipulator - group of 3 »

E Papadopoulos, B Mu, R Frenette - IEEE/ASME TRANSACTIONS ON MECHATRONICS, 2003 - ieeexplore.ieee.org

... servo-control applications in a **simulation** or a ... where is the line-**oscillation frequency** observed (about 3 Hz ... into the damping of the **gear train** connected to its ...

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Coupling of length scales and atomistic simulation of MEMS devices - group of 2 »

RE Rudd, JQ Broughton - Proc. MSM - coewww.rutgers.edu

... there are clear departures from a sinusoidal **oscillation**. ... what speed can we run a **gear train** before entanglement ... SAMs and also the envisaged **simulation** of SAM ...

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A kiln drive vibration problem and solution

SE Ehinger, H Inc, TX Clarksville - Cement Industry Technical Conference, 1993. Record of ..., 1993 - ieeexplore.ieee.org

... the damage that had taken place in the **gear train**. ... a detailed analytical study and **simulation** of the ... verify the actual source of the low **frequency oscillation**. ...

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Modeling and identification of an electrohydraulic articulated forestry machine - group of 4 »

E Papadopoulos, B Mu, R Frenette - Robotics and Automation, 1997. Proceedings., 1997 IEEE ..., 1997 - ieeexplore.ieee.org

... and use in a graphical training **simulator** [2]. Mathematical ... Therefore, iff is the **frequency of oscillation**, and 1 ... the damp- ing of the **gear train** connected to ...

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Motor characteristics in the control of a compliant load - group of 4 »

EG Harokopos, RW Mayne - Journal of Guidance, Control, and Dynamics, 1986 - pdf.aiaa.org

... consisting of a DC-motor, a **gear train** and an ... tions at low values of R., the **oscillation frequency** results from ... From the various **simulation** results it has been ...

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Rate loop control based on torque compensation in anti-backlash geared servo system

YS Kwon, HY Hwang, HR Lee, SH Kim - American Control Conference, 2004. Proceedings of the 2004 - ieeexplore.ieee.org

... such as the unstable **self-oscillation**, or extra ... stiffness of the anti-backlash **gear train** is linearized ... The friction model in this **simulation** is expressed in ...

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Coupling of Length Scales and Atomistic Simulation of MEMS Resonators - group of 6 »

RE Rudd, JQ Broughton - Arxiv preprint cond-mat/9812232, 1998 - arxiv.org

... 5. Illustration of dynamic **simulation** zone and ... the multiscale decomposition for the **micro-gear train**. ... there are clear departures from a sinusoidal **oscillation**. ...

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Analysis of the Possibilities of the Usage of Electrical Synchronous Link for a CNC Gear Hobbing ...

K Slivinskas, V Gichan, AJ Poska, VK Augustaitis - scientific.net

... axis usually consists of the reducing **gear train** allowing one ... Results of **Simulation** and Calculation of Dynamic ... is necessary to mention that **oscillations** of the ...

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[The additional mass of bodies oscillating in shallow water](#)

PG Avramenko - International Applied Mechanics, 1967 - Springer

... is not developed enough to permit **simulation** of wave ... 6, flywheel 7, reducing **gear train** 8, electric ... The actual **oscillation frequency** range employed was 1.2-18 ...

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[G Parker](#)

[J Geras](#)

[R Robinett](#)

[Ultra-maneuverable steering control algorithms for terrain transitions - group of 6 »](#)

MW Torrie, R Koch, V Bahl, D Cripps - Proceedings of SPIE- The International society for optical ..., 1999 - autonomoussolutions.com

... **gear train** ... The discrete **simulation** of the PQFT remained stable in the large, but exhibited a small angular ... Reducing the system gain eliminated the **oscillation**. ...

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[Reducing the effect of load torque disturbances in dual inertia systems with lost motion](#)

P Schmidt, T Rehm - American Control Conference, 2004. Proceedings of the 2004 - ieeexplore.ieee.org

... Instead, the **simulation** insured Page 3 1.2 that ... a printing press operation where high **frequency** disturbances are ... The graph shows a slight **oscillation** caused by ...

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[On the Modeling and Control of an Experimental Harvester Machine Manipulator - group of 3 »](#)

E Papadopoulos, R Frenette, B Mu, Y Gonthier - IEEE/RSJ Int. Conf. on Intell. Robots and Sys, 1997 - users.ntua.gr

... a requirement for control and graphical **simulator** design [3 ... f is the line fundamental **frequency of oscillation**, l is its ... is D m , N is the **gear train** gear ratio ...

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[\[book\] Structural Flexibility of the Shuttle Remote Manipulator System Mechanical Arm - group of 3 »](#)

PK Nguyen - 1982 - pdf.aiaa.org

... present- ing part of the math modelling, analysis and **simulation** results mentioned ... and a roller bearing, and carries the G-2 out- put **gear train**. ... **Frequency** (Hz ...

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[Senior Control Systems Laboratory at Purdue University](#)

DE Lyon, PH Meckl, ODI Nwokah - ieeexplore.ieee.org

... Thus, the **simulation** performs much like a "real" system ... settling time or the **frequency of oscillation** of a ... The presence of the **gear train** and some bearing ...

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[Command shaping boom crane control system with nonlinear inputs](#)

GG Parker, K Groom, J Hurtado, RD Robinett, F ... - Control Applications, 1999. Proceedings of the 1999 IEEE ..., 1999 - ieeexplore.ieee.org

... pendulation using an operator in- the-loop **simulation**. ... kinematics and the primary **payload oscillation** Characteristics are ... be the slew axis **gear train**, and is ...

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ninn 3rd ProDulsion Joint - group of 2 »

W Seattle - pdf.aiaa.org

Page 1. NO. 67-504 u THE LUNAR ORBITER VELOCITY CONTROL SYSTEM by HH NYE and D.

W..MOORMAN The Boeing Company Seattle, Washington AIM Paper NO. 67-504 ninn ...

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Liquid propellant missle longitudinal oscillation

RH Fashbaugh - 1966 - deepblue.lib.umich.edu

... mass of the pump rotor, **gear train**, and turbine ... Proper **simulation** of the missile system is important ... the orifice outlet pressure **oscillation** amplitude versus ...

Cached - Web Search

Dynamic simulation of wheel-rail interaction for locomotivetraction studies

S Senini, F Flinders, W Oghanna - Railroad Conference, 1993., Proceedings of the 1993 IEEE/ ..., 1993 - ieeexplore.ieee.org

... the motors, Simulations were performed on the dynamic systems **simulator**, "SIMULINK" and ... by the motor is transferred through the **gear train** and eventually ...

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R Robinett

SLIDING MODE CONTROL OF A FLEXIBLE MANIPULATOR WITH COULOMB FRICTION - group of 2 »

AL Crassidis - AIAA Guidance, Navigation and Control Conference, Baltimore, ..., 1995 - pdf.aiaa.org

... Persistent **oscillations** of the beam tip occur at the **frequency** of the ... The Coulomb friction **simulation** captures this behavior rather well as shown in ...

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Survey of nonlinear vibration of gear transmission systems - group of 2 »

J Wang, R Li, X Peng - Applied Mechanics Reviews, 2003 - link.aip.org

... RC and Crossley FRE (1977), Digital **simulation** of impact ... and Mook DT (1979), Nonlinear **Oscillations**, John Wiley ... stability of a two-stage **gear train** under the ...

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Development and Implementation of Compliant Controller On Manus Robot Arm

AR Konuk - student.utwente.nl

... **Simulation** 45 7.7 ... output side of a **gear train** is ...

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A three-state clutch servomechanism for an underwater control surface. - group of 2 »

CR Tegnelia - 1968 - dspace.mit.edu

... a spring-mass filter and a **gear train**, both of ... above all, steady-state **oscillations** are eliminated ... results of the analysis and **simulation** studies certainly ...

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On-hardware optimization of stepper-motor system dynamics - group of 2 »

JR Rogers, K Craig - Mechatronics, 2005 - Elsevier

... optimizing these sequences based on **simulation** of the ... Slamming and **oscillation** are almost always undesirable ... removing backlash from a **gear train** will result in ...

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Telerobotic response requirements

TL Brooks, STX Robotics, MD Lanham - Systems, Man and Cybernetics, 1990. Conference Proceedings., ..., 1990 - ieeexplore.ieee.org

... loop may be closed to alleviate nonlinear effects of the **gear train** and actuator ...

Another advantage is that the higher-**frequency** force components can be sensed ...

Cited by 66 - Related Articles - Web Search

Controlling mechanical systems with backlash—a survey - group of 3 »

M Nordin, PO Gutman - Automatica, 2002 - Elsevier

... regulator dynam- ics, so that arbitrary open-loop cross-over **frequency** is not ... Note that the measured motor speed amplitude of the **oscillations** may be very ...

Cited by 25 - Related Articles - Web Search - BL Direct

Development of 3D-input device using adaptive control - group of 2 »

H Yokoi, J Yamashita, Y Fukui, M Shimojo - Neural Networks, 1995. Proceedings., IEEE International ..., 1995 - ieeexplore.ieee.org

... manipulator is accelerated through a **gear train** by a ... output based on the **oscillation** input, obtaining ... assumptions presented above, computer **simulation** shows a ...
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Control of low velocity friction and gear backlash in a machine tool feed drive system
- group of 4 »

K Menon, K Krishnamurthy - Mechatronics, 1999 - Elsevier
... in position and limit cycle **oscillations** around the ... But the **simulation** results presented showed that the ... lead screw transmission system through a **gear train**. ...
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Application of the wavelet transform in machine condition monitoring and fault diagnostics: a review ... - group of 6 »

ZK Peng, FL Chu - Mechanical Systems and Signal Processing, 2004 - Elsevier
... systems [18, 19 and 20], planetary **gear train** [21 and ... 2. A **simulation** signal (a) and its wavelet ... wavelet packet algorithm into free-**oscillation** testing method ...
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